

# Stanford

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## David Ehrhardt

- Assistant Professor, Biology
- Assist Prof (By Courtesy), Biology

### Bio

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#### ACADEMIC APPOINTMENTS

- Assistant Professor, Biology

### Teaching

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#### COURSES

##### 2023-24

- Advanced Cell Biology: BIO 214, BIOC 224, MCP 221 (Win)
- Advanced Imaging Lab in Biophysics: APPPHYS 232, BIO 132, BIO 232, BIOE 232, BIOPHYS 232, GENE 232 (Spr)

##### 2022-23

- Advanced Cell Biology: BIO 214, BIOC 224, MCP 221 (Win)
- Advanced Imaging Lab in Biophysics: APPPHYS 232, BIO 132, BIO 232, BIOPHYS 232, GENE 232 (Spr)

##### 2021-22

- Advanced Cell Biology: BIO 214, BIOC 224, MCP 221 (Win)
- Advanced Imaging Lab in Biophysics: APPPHYS 232, BIO 132, BIO 232, BIOPHYS 232, GENE 232 (Spr)

##### 2020-21

- Advanced Cell Biology: BIO 214, BIOC 224, MCP 221 (Win)

### Publications

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#### PUBLICATIONS

- **CLASP stabilization of plus ends created by severing promotes microtubule creation and reorientation.** *The Journal of cell biology*  
Lindeboom, J. J., Nakamura, M., Saltini, M., Hibbel, A., Walia, A., Ketelaar, T., Emons, A. M., Sedbrook, J. C., Kirik, V., Mulder, B. M., Ehrhardt, D. W.  
2018
- **SPR2 protects minus ends to promote severing and reorientation of plant cortical microtubule arrays** *JOURNAL OF CELL BIOLOGY*  
Nakamura, M., Lindeboom, J. J., Saltini, M., Mulder, B. M., Ehrhardt, D. W.  
2018; 217 (3): 915–27
- **50 years of Arabidopsis research: highlights and future directions** *NEW PHYTOLOGIST*  
Provar, N. J., Alonso, J., Assmann, S. M., Bergmann, D., Brady, S. M., Brkljacic, J., Browse, J., Chapple, C., Colot, V., Cutler, S., Dangl, J., Ehrhardt, D., Friesner, et al  
2016; 209 (3): 921-944

- **Visualization of cellulose synthases in Arabidopsis secondary cell walls** *SCIENCE*  
Watanabe, Y., Meents, M. J., MCDONNELL, L. M., Barkwill, S., Sampathkumar, A., Cartwright, H. N., Demura, T., Ehrhardt, D. W., Samuels, A. L., Mansfield, S. D.  
2015; 350 (6257): 198-203
- **CESA TRAFFICKING INHIBITOR Inhibits Cellulose Deposition and Interferes with the Trafficking of Cellulose Synthase Complexes and Their Associated Proteins KORRIGAN1 and POM2/CELLULOSE SYNTHASE INTERACTIVE PROTEIN1.** *Plant physiology*  
Worden, N., Wilkop, T. E., Esteve, V. E., Jeannotte, R., Lathé, R., Vernhettes, S., Weimer, B., Hicks, G., Alonso, J., Labavitch, J., Persson, S., Ehrhardt, D., Drakakaki, et al  
2015; 167 (2): 381-393
- **GCP-WD Mediates gamma-TuRC Recruitment and the Geometry of Microtubule Nucleation in Interphase Arrays of Arabidopsis** *CURRENT BIOLOGY*  
Walia, A., Nakamura, M., Moss, D., Kirik, V., Hashimoto, T., Ehrhardt, D. W.  
2014; 24 (21): 2548-2555
- **GCP-WD mediates ?-TuRC recruitment and the geometry of microtubule nucleation in interphase arrays of Arabidopsis.** *Current biology*  
Walia, A., Nakamura, M., Moss, D., Kirik, V., Hashimoto, T., Ehrhardt, D. W.  
2014; 24 (21): 2548-2555
- **The Microtubule Plus-End Tracking Proteins SPR1 and EB1b Interact to Maintain Polar Cell Elongation and Directional Organ Growth in Arabidopsis.** *Plant cell*  
Galva, C., Kirik, V., Lindeboom, J. J., Kaloriti, D., Rancour, D. M., Hussey, P. J., Bednarek, S. Y., Ehrhardt, D. W., Sedbrook, J. C.  
2014; 26 (11): 4409-4425
- **COPI Jointly Modulates Cytoskeletal Processes and Electrophysiological Responses Required for Stomatal Closure.** *Molecular plant*  
Khanna, R., Li, J., Tseng, T., Schroeder, J. I., Ehrhardt, D. W., Briggs, W. R.  
2014; 7 (9): 1441-1454
- **The Phragmoplast-Orienting Kinesin-12 Class Proteins Translate the Positional Information of the Preprophase Band to Establish the Cortical Division Zone in Arabidopsis thaliana** *PLANT CELL*  
Lipka, E., Gadeyne, A., Stoeckle, D., Zimmermann, S., De Jaeger, G., Ehrhardt, D. W., Kirik, V., van Damme, D., Mueller, S.  
2014; 26 (6): 2617-2632
- **Male-female communication triggers calcium signatures during fertilization in Arabidopsis.** *Nature communications*  
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- **Male-female communication triggers calcium signatures during fertilization in Arabidopsis.** *Nature communications*  
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2014; 5: 4645-?
- **A mechanism for reorientation of cortical microtubule arrays driven by microtubule severing.** *Science*  
Lindeboom, J. J., Nakamura, M., Hibbel, A., Shundyak, K., Gutierrez, R., Ketelaar, T., Emons, A. M., Mulder, B. M., Kirik, V., Ehrhardt, D. W.  
2013; 342 (6163): 1245533-?
- **A Mechanism for Reorientation of Cortical Microtubule Arrays Driven by Microtubule Severing** *SCIENCE*  
Lindeboom, J. J., Nakamura, M., Hibbel, A., Shundyak, K., Gutierrez, R., Ketelaar, T., Emons, A. M., Mulder, B. M., Kirik, V., Ehrhardt, D. W.  
2013; 342 (6163): 1202-?
- **Patterning and Lifetime of Plasma Membrane-Localized Cellulose Synthase Is Dependent on Actin Organization in Arabidopsis Interphase Cells** *PLANT PHYSIOLOGY*  
Sampathkumar, A., Gutierrez, R., McFarlane, H. E., Bringmann, M., Lindeboom, J., Emons, A., Samuels, L., Ketelaar, T., Ehrhardt, D. W., Persson, S.  
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- **Cortical Microtubule Arrays Are Initiated from a Nonrandom Prepattern Driven by Atypical Microtubule Initiation** *PLANT PHYSIOLOGY*  
Lindeboom, J. J., Lioutas, A., Deinum, E. E., Tindemans, S. H., Ehrhardt, D. W., Emons, A. M., Vos, J. W., Mulder, B. M.  
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- **Rho GTPase Signaling Activates Microtubule Severing to Promote Microtubule Ordering in Arabidopsis** *CURRENT BIOLOGY*  
Lin, D., Cao, L., Zhou, Z., Zhu, L., Ehrhardt, D., Yang, Z., Fu, Y.

2013; 23 (4): 290-297

- **Development of Tools for the Biochemical Characterization of the Symbiotic Receptor-Like Kinase DMI2** *MOLECULAR PLANT-MICROBE INTERACTIONS*  
Riely, B. K., Larrainzar, E., Haney, C. H., Mun, J., Gil-Quintana, E., Gonzalez, E. M., Yu, H., Tricoli, D., Ehrhardt, D. W., Long, S. R., Cook, D. R.  
2013; 26 (2): 216-226
- **Smaller, Faster, Brighter: Advances in Optical Imaging of Living Plant Cells** *ANNUAL REVIEW OF PLANT BIOLOGY, VOL 64*  
Shaw, S. L., Ehrhardt, D. W.  
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- **The molecular origins of chiral growth in walled cells** *CURRENT OPINION IN MICROBIOLOGY*  
Huang, K. C., Ehrhardt, D. W., Shaevitz, J. W.  
2012; 15 (6): 707-714
- **Arabidopsis MICROTUBULE DESTABILIZING PROTEIN40 Is Involved in Brassinosteroid Regulation of Hypocotyl Elongation** *PLANT CELL*  
Wang, X., Zhang, J., Yuan, M., Ehrhardt, D. W., Wang, Z., Mao, T.  
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- **Arabidopsis GCP3-interacting protein 1/MOZART 1 is an integral component of the gamma-tubulin-containing microtubule nucleating complex** *PLANT JOURNAL*  
Nakamura, M., Yagi, N., Kato, T., Fujita, S., Kawashima, N., Ehrhardt, D. W., Hashimoto, T.  
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- **Time-lapse Fluorescence Imaging of Arabidopsis Root Growth with Rapid Manipulation of The Root Environment Using The RootChip** *JOVE-JOURNAL OF VISUALIZED EXPERIMENTS*  
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- **Microtubules Are Essential for Guard-Cell Function in Vicia and Arabidopsis** *MOLECULAR PLANT*  
Eisinger, W., Ehrhardt, D., Briggs, W.  
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- **Cellulose microfibril crystallinity is reduced by mutating C-terminal transmembrane region residues CESA1(A903V) and CESA3(T942I) of cellulose synthase** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
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- **TONNEAU2/FASS Regulates the Geometry of Microtubule Nucleation and Cortical Array Organization in Interphase Arabidopsis Cells** *PLANT CELL*  
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- **Time-lapse fluorescence imaging of Arabidopsis root growth with rapid manipulation of the root environment using the RootChip.** *Journal of visualized experiments : JoVE*  
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- Grossmann, G., Guo, W., Ehrhardt, D. W., Frommer, W. B., Sit, R. V., Quake, S. R., Meier, M.  
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- **Symbiotic Rhizobia Bacteria Trigger a Change in Localization and Dynamics of the Medicago truncatula Receptor Kinase LYK3** *PLANT CELL*  
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  - **Live Cell Imaging Reveals Structural Associations between the Actin and Microtubule Cytoskeleton in Arabidopsis** *PLANT CELL*  
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  - **The GRV2/RME-8 protein of Arabidopsis functions in the late endocytic pathway and is required for vacuolar membrane flow** *PLANT JOURNAL*  
Silady, R. A., Ehrhardt, D. W., Jackson, K., Faulkner, C., Oparka, K., Somerville, C. R.  
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  - **CLASP localizes in two discrete patterns on cortical microtubules and is required for cell morphogenesis and cell division in Arabidopsis** *JOURNAL OF CELL SCIENCE*  
Kirik, V., Herrmann, U., Parupalli, C., Sedbrook, J. C., Ehrhardt, D. W., Huelskamp, M.  
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  - **Evidence for high-capacity bidirectional glucose transport across the endoplasmic reticulum membrane by genetically encoded fluorescence resonance energy transfer nanosensors** *MOLECULAR AND CELLULAR BIOLOGY*  
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  - **Real-time lineage analysis reveals oriented cell divisions associated with morphogenesis at the shoot apex of Arabidopsis thaliana** *DEVELOPMENT*  
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- **GFP technology for live cell imaging** *CURRENT OPINION IN PLANT BIOLOGY*  
Ehrhardt, D.  
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- **Sustained microtubule treadmilling in Arabidopsis cortical arrays** *SCIENCE*  
Shaw, S. L., Kamyar, R., Ehrhardt, D. W.  
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- **Pharmacological analysis of nod factor-induced calcium spiking in Medicago truncatula. Evidence for the requirement of type IIA calcium pumps and phosphoinositide signaling** *PLANT PHYSIOLOGY*  
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- **Polarized cytokinesis in vacuolate cells of Arabidopsis** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
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- **Trophic obligate conversion of an photoautotrophic organism through metabolic engineering** *SCIENCE*  
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- **Dead cells don't dance: insights from live-cell imaging in plants** *CURRENT OPINION IN PLANT BIOLOGY*  
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- **Random GFP :: cDNA fusions enable visualization of subcellular structures in cells of Arabidopsis at a high frequency** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
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- **Colocalization of cell division proteins FtsZ and FtsA to cytoskeletal structures in living Escherichia coli cells by using green fluorescent protein** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
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- **DEPOLARIZATION OF ALFALFA ROOT HAIR MEMBRANE-POTENTIAL BY RHIZOBIUM-MELILOTI NOD FACTORS** *SCIENCE*  
Ehrhardt, D. W., Atkinson, E. M., Long, S. R.

1992; 256 (5059): 998-1000

- **ISOLATION AND CHARACTERIZATION OF A SULFUR-REGULATED GENE ENCODING A PERIPLASMICALLY LOCALIZED PROTEIN WITH SEQUENCE SIMILARITY TO RHODANASE** *JOURNAL OF BACTERIOLOGY*

Laudenbach, D. E., Ehrhardt, D., Green, L., Grossman, A.

1991; 173 (9): 2751-2760

- **RHIZOBIUM-MELILOTI NODULATION GENE-REGULATION AND MOLECULAR SIGNALS** *5TH INTERNATIONAL SYMP ON THE MOLECULAR GENETICS OF PLANT-MICROBE INTERACTIONS*

Long, S. R., Fisher, R. F., Ogawa, J., Swanson, J., Ehrhardt, D. W., Atkinson, E. M., SCHWEDOCK, J. S.

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Janis, C. M., Ehrhardt, D.

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